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Patent [19]

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[54] DEODORIZING METHOD BY PHOTOCATALYST

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[57] ABSTRACT

PURPOSE: To get rid of any reemission of an odor as well as to aim at reduction in maintenance by irradiating a specified wavelength of light to tungsten oxide under coexistence of this tungsten oxide and a gaseous body containing an oxidized compound and oxygen.

CONSTITUTION: When electric lamp 7 is lighted and a blower 6 is operated, an oxidized compound, namely, air containing a malodor is inhaled from a suction grille 2. Then, first dust is arrested by a pre-filter 3. Successively it is acidolyzed to a nitrogenous compound of ammonia, amines or causative matter for the malodor, and a sulfuric compound of hydrogen sulfide, mercaptans by a photocatalytic layer 4 excited through ultraviolet rays. This deodorized air is blown out of a blowoff grille 9. As for the lamp 7, such one as capable of irradiating light of more than 300nm in wavelength and less than 370nm in maximum wavelength is recommendable. When the maximum wavelength of this lamp 7 exceeds a range of 370nm, an electron in the tungsten oxide is not excited so efficiently, so that deodorizing action is weak. On the other hand, a lamp which emits light of less than 300nm is expensive in cost.

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